

CLAIMS

Please amend the claims as set forth below.

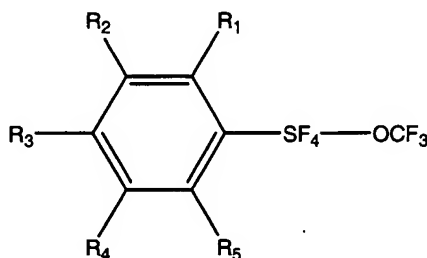
1. (Currently amended) A composition comprising RSF_4OCF_3 , wherein R is an organic group selected from the group consisting of a substituted or unsubstituted cyclohexyl, a substituted or unsubstituted phenyl or naphthyl and mixtures thereof and SF_4OCF_3 is bonded to a carbon of the organic group.

2. (Canceled)

3. (Canceled)

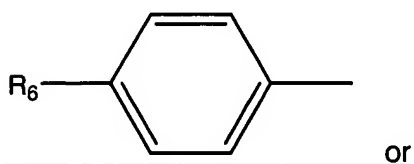
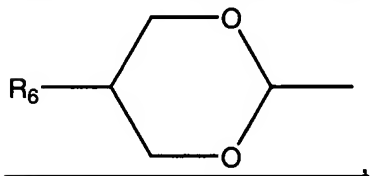
4. (Canceled)

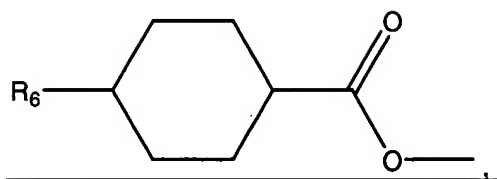
5. (Currently amended) A composition comprising a structure of the following



formula:

wherein R_1 , R_2 , R_3 , R_4 , and R_5 are members independently selected from the group consisting of H, alkyl, aryl, cycloalkyl, halogen, nitro, perfluoroalkyl, cyano, methoxy, trifluoromethoxy, sulfur pentafluoride and (trifluoromethoxy)tetrafluorosulfuranyl, or wherein each of R_1 , R_2 , R_4 , and R_5 is H and R_3 is represented by one of the following formulas:





wherein R₆ is a alkyl, cycloalkyl or substituted phenyl.

6. (Canceled)

7. (Original) The composition of claim 5, wherein the composition is a liquid crystal and a (trifluoromethoxy)tetrafluorosulfuranyl group of the structure is a head group of the liquid crystal having a dielectric anisotropy of at least 11 and an optical birefringence of at least 0.1.

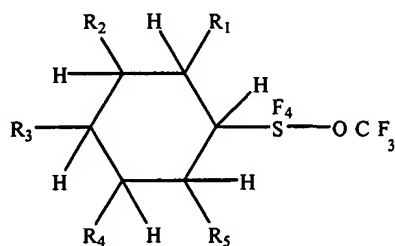
8. (Original) The composition of claim 5, wherein the SF₄OCF₃ is present in the composition solely in a fac form.

9. (Original) The composition of claim 5, wherein the SF₄OCF₃ is present in the composition solely in a mer form.

10. (Original) The composition of claim 5, wherein at least one of R₁ and R₅ is F.

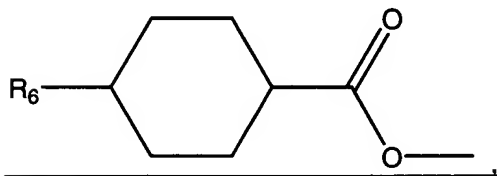
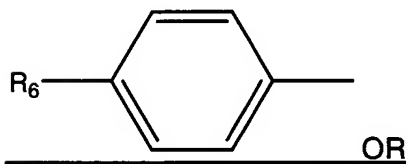
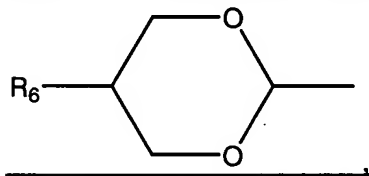
11. (Canceled)

12. (Currently amended) A composition comprising a structure of the following formula:



wherein R₁, R₂, R₃, R₄, and R₅ are members independently selected from the group consisting of H, alkyl, aryl, cycloalkyl, halogen, nitro, perfluoroalkyl, cyano, methoxy,

trifluoromethoxy, sulfur pentafluoride and (trifluoromethoxy)tetrafluorosulfuranyl, or wherein each of R_1 , R_2 , R_4 , and R_5 is H and R_3 is represented by one of the following formulas:



wherein R_6 is a alkyl, cycloalkyl or substituted phenyl.

13. (Canceled)

14. (Original) The composition of claim 12, wherein the composition is a liquid crystal and a (trifluoromethoxy)tetrafluorosulfuranyl group of the structure is a head group of the liquid crystal having a dielectric anisotropy of at least 11 and an optical birefringence of at least 0.1.

15. (Original) The composition of claim 12, wherein the SF_4OCF_3 is present in the composition solely in a fac form.

16. (Original) The composition of claim 12, wherein the SF_4OCF_3 is present in the composition solely in a mer form.

17. (Original) The composition of claim 12, wherein at least one of R_1 and R_5 is F.
18. (Canceled).
19. (Canceled)
20. (Canceled)